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jc956 U.S. PTO

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jc925 U.S. PTO  
09/698881

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Torma et al.

Serial No. TO BE ASSIGNED

Corresponding to PCT/FI99/00451, filed 27 May 1999

Filed: October 27, 2000

Docket No.: 796.372USW1

Title: MULTIPLEXING IN A PDH TELECOMMUNICATIONS NETWORK

CERTIFICATE UNDER 37 C.F.R. 1.10:

'Express Mail' mailing number: EL492432178US

Date of Deposit: October 27, 2000

The undersigned hereby certifies that this Transmittal Letter and the paper or fee, as described herein, are being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

By:

Susan Heuiser  
Susan Heuiser

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

**REQUEST FOR CONTINUATION OF AN INTERNATIONAL APPLICATION**  
**UNDER 37 C.F.R. §1.53(b)**

This is a request for filing a continuation application under 37 C.F.R. §1.53(b) of prior pending international application number PCT/FI99/00451 filed on 27 May 1999 entitled MULTIPLEXING IN A PDH TELECOMMUNICATIONS NETWORK, which designated the United States.

1. ☒ Enclosed is a patent application containing 9 pages of specification, 2 pages of claims and 4 sheet(s) of drawings.
2. ☒ A preliminary amendment is enclosed.
3. ☒ Please amend the specification by inserting the following paragraph after the title:

This application is a continuation of international application serial number PCT/FI99/00451, filed 27 May 1999.

4. ☐ Small entity status
  - a. ☐ A small entity statement is enclosed.
  - b. ☐ A small entity statement was filed in the prior non provisional application.
  - c. ☐ is no longer claimed.

The filing fee is calculated below

| CLAIMS                    |              |              |           |           |
|---------------------------|--------------|--------------|-----------|-----------|
|                           | Number Filed | Number Extra | Rate      | Fee       |
| Total Claims              | 8            |              | X \$18.00 | \$        |
| Indep. Claims             | 2            |              | X \$78.00 | \$        |
| Multiply Dependent Claims |              |              |           | \$        |
| Basic Fee                 |              |              |           | \$ 710.00 |
| TOTAL                     |              |              |           | \$ 710.00 |

5. ☒ Payment of filing fees  
☒ A check in the amount of \$710.00 is enclosed.  
☐ Please charge Deposit Account Number 50-1038.  
☐ Is deferred.
6. ☒ The Commissioner is hereby authorized to credit any overpayment or charge any fees required under 37 C.F.R. §1.16-1.18 to Deposit Account Number 50-1038.
7. ☒ The priority of Finnish application number 981189, filed 28 May 1998, is claimed under 35 U.S.C. §119.  
☒ A certified copy of the priority application is enclosed.
8. ☒ A SIGNED Declaration is enclosed.
9. ☒ An assignment of the invention to Nokia Networks OY, Recordation Form Cover Sheet (Patents Only) and a check in the amount of \$40.
10. ☒ An Information Disclosure Statement, Form PTO 1449 and copies of 7 citations are enclosed.
11. ☒ Correspondence Address
12. ☒ Address all correspondence to Michael B. Lasky.
13. ☒ Also enclosed: Abstract
14. ☒ A return postcard is enclosed.

Altera Law Group  
10749 Bren Road East  
Minneapolis, Minnesota 55343

Respectfully submitted,

Altera Law Group, LLC  
10749 Bren Road East, Opus 2  
Minneapolis, MN 55343  
(952) 912-0527

Date: October 27, 2000

By: 

Michael B. Lasky  
Reg. No. 29,555  
MBL/jsc

| Parameter                  | Control |      | 100 mg/kg |      | 200 mg/kg |      | 400 mg/kg |      | 800 mg/kg |      |
|----------------------------|---------|------|-----------|------|-----------|------|-----------|------|-----------|------|
|                            | Mean    | SD   | Mean      | SD   | Mean      | SD   | Mean      | SD   | Mean      | SD   |
| Body weight (g)            | 210.0   | 10.0 | 210.0     | 10.0 | 210.0     | 10.0 | 210.0     | 10.0 | 210.0     | 10.0 |
| Food intake (g)            | 10.0    | 2.0  | 10.0      | 2.0  | 10.0      | 2.0  | 10.0      | 2.0  | 10.0      | 2.0  |
| Water intake (ml)          | 5.0     | 1.0  | 5.0       | 1.0  | 5.0       | 1.0  | 5.0       | 1.0  | 5.0       | 1.0  |
| Urine volume (ml)          | 1.0     | 0.2  | 1.0       | 0.2  | 1.0       | 0.2  | 1.0       | 0.2  | 1.0       | 0.2  |
| Urine pH                   | 7.0     | 0.5  | 7.0       | 0.5  | 7.0       | 0.5  | 7.0       | 0.5  | 7.0       | 0.5  |
| Urine creatinine (mg/dl)   | 0.5     | 0.1  | 0.5       | 0.1  | 0.5       | 0.1  | 0.5       | 0.1  | 0.5       | 0.1  |
| Urine protein (mg/dl)      | 0.1     | 0.05 | 0.1       | 0.05 | 0.1       | 0.05 | 0.1       | 0.05 | 0.1       | 0.05 |
| Urine glucose (mg/dl)      | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine ketone (mg/dl)       | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine bilirubin (mg/dl)    | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine urobilinogen (mg/dl) | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine hemoglobin (mg/dl)   | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine nitrite (mg/dl)      | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine leukocytes (mg/dl)   | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine erythrocytes (mg/dl) | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine casts (mg/dl)        | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine crystals (mg/dl)     | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine mucus (mg/dl)        | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine bacteria (mg/dl)     | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine fungi (mg/dl)        | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine parasites (mg/dl)    | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine debris (mg/dl)       | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine sediment (mg/dl)     | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine color (mg/dl)        | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine clarity (mg/dl)      | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine odor (mg/dl)         | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine taste (mg/dl)        | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine smell (mg/dl)        | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine appearance (mg/dl)   | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine consistency (mg/dl)  | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine texture (mg/dl)      | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine feel (mg/dl)         | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine look (mg/dl)         | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine sound (mg/dl)        | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine touch (mg/dl)        | 0.0     | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  | 0.0       | 0.0  |
| Urine smell (mg/dl)        | 0.0     | 0.0  | 0.0       | 0.   |           |      |           |      |           |      |

|             |                                                  |                 |                |
|-------------|--------------------------------------------------|-----------------|----------------|
| Applicant:  | Torma et al.                                     | Examiner:       | UNKNOWN        |
| Serial No.: | TO BE ASSIGNED                                   | Group Art Unit: | TO BE ASSIGNED |
| Filed:      | October 27, 2000                                 | Docket No.:     | 796.372USW1    |
| Title:      | MULTIPLEXING IN A PDH TELECOMMUNICATIONS NETWORK |                 |                |

'Express Mail' mailing number: EL492432178US  
Date of Deposit: October 27, 2000  
The undersigned hereby certifies that this Transmittal Letter and the paper or fee, as described herein, are being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

Susan Heuiser

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Please enter the following preliminary amendment into the above-referenced application.

Please insert the attached abstract into the application as the last page thereof.

**REMARKS**

The above preliminary amendment is made to insert an abstract page into the application.

Applicant respectfully requests that this preliminary amendment be entered into the record prior to calculation of the filing fee and prior to examination and consideration of the above-identified application.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicant's attorney of record, Michael B. Lasky at 952-912-0527.

Respectfully submitted,

Altera Law Group, LLC  
10749 Bren Road East, Opus 2  
Minneapolis, MN 55343  
(952) 912-0527

Date: October 27, 2000

By: 

Michael B. Lasky  
Reg. No. 29,555  
MBL/jsc

002207" 18336960

## **ABSTRACT**

**For**

### **MULTIPLEXING IN A PDH TELECOMMUNICATIONS NETWORK**

The invention relates to a multiplexing method used in a PDH network. Standard PCM signals are received in the network element, at least some of which are multiplexed on a time-division basis into the same outbound transmission frame, the capacity of the payload portion of the frame substantially corresponding to the capacity required by N PCM signals. In order that ATM cells may be transferred more advantageously than heretofore through an existing PDH network, the multiplexing is implemented as configurable in such a way that the total capacity of the payload portion can be divided between at least two parts of variable capacity in such a way that each part can be allocated a desired portion of the total capacity of the payload portion in accordance with the current transmission requirement. A part of the payload depending on the desired capacity is allocated to at least one traffic source from a group in which a number of PCM signals constitutes a first traffic source and a number of packet data streams constitutes a second traffic source. The invention is specifically intended for transferring ATM traffic through a PDH network.

**Altera Reference No.:** 796.372USW1

**Altera Law Group, LLC**

## Declaration and Power of Attorney Patent Application (Design or Utility)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:  
**MULTIPLEXING IN A PDH TELECOMMUNICATIONS NETWORK**

the specification of which

- ☐ is referred to by Altera reference number on a separate document  
☒ Is attached hereto  
☐ was filed on \_\_\_\_\_ as application serial no. \_\_\_\_\_ and or PCT International  
 Application number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information know to me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or 35 U.S.C. §365(b) of any foreign application(s) for patent or inventor's certificate, or 35 U.S.C. §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate of PCT International application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application(s) |                    |                                     |
|------------------------------|--------------------|-------------------------------------|
| Number<br>981189             | Country<br>Finland | Day/Month/Year Filed<br>28 May 1998 |
| Number                       | Country            | Day/Month/Year Filed                |
| Number                       | Country            | Day/Month/Year Filed                |

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

| Prior Provisional Application(s) |                            |
|----------------------------------|----------------------------|
| Serial Number                    | Day/Month/Year Filing Date |
| Serial Number                    | Day/Month/Year Filing Date |
| Serial Number                    | Day/Month/Year Filing Date |

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or under 35 U.S.C. §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

| Prior U.S. or International Application(s) |                                     |                                                  |
|--------------------------------------------|-------------------------------------|--------------------------------------------------|
| Serial Number<br>PCT/FI99/00451            | Day/Month/Year Filed<br>27 May 1999 | Status (patented, pending, abandoned)<br>Pending |
| Serial Number                              | Day/Month/Year Filed                | Status (patented, pending, abandoned)            |
| Serial Number                              | Day/Month/Year Filed                | Status (patented, pending, abandoned)            |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

09698881 102700

Altera Reference No.: 796.372USW1

**Power of Attorney**

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

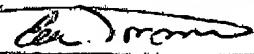
Steven R. Funk      Reg. No. 37,830  
David W. Lynch      Reg. No. 36,204  
Karen D. McDaniel      Reg. No. 37,674

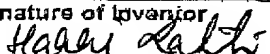
Mark A. Hollingsworth      Reg. No. 38,491  
Michael B. Lasky      Reg. No. 29,555  
Iain A. McIntyre      Reg. No. 40,337

I hereby authorize them or others whom they may appoint to act and rely on instructions from and communicate directly with the person/organization who/which first sends this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Altera Law Group, LLC otherwise.

Please direct all correspondence in this case to Altera Law Group, LLC at the address indicated below:

Michael B. Lasky  
Altera Law Group, LLC  
10749 Bren Road East, Opus 2  
Minneapolis, MN 55343

| Full Name of Sole or First Inventor                                                                          |                                          |                                        |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------|
| Family Name<br>Torma                                                                                         | First Given Name<br>Esa                  | Second Given Name                      |
| Residence and Citizenship                                                                                    |                                          |                                        |
| City of Residence<br>Helsinki                                                                                | State or Country of Residence<br>Finland | Country of Citizenship<br>Finland      |
| Post Office Address                                                                                          |                                          |                                        |
| Street Address<br>Puistokaari 12 B 18                                                                        | City<br>FIN-00200 Helsinki               | State & Zip Code or Country<br>Finland |
| Signature of Inventor<br> |                                          | Date<br>Oct. 17, 2000                  |

| Full Name of Second Inventor, if any                                                                         |                                          |                                        |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------|
| Family Name<br>Lahti                                                                                         | First Given Name<br>Harri                | Second Given Name                      |
| Residence and Citizenship                                                                                    |                                          |                                        |
| City of Residence<br>Klaukkala                                                                               | State or Country of Residence<br>Finland | Country of Citizenship<br>Finland      |
| Post Office Address                                                                                          |                                          |                                        |
| Street Address<br>Hevontie 25 B                                                                              | City<br>FIN-01820 Klaukkala              | State & Zip Code or Country<br>Finland |
| Signature of Inventor<br> |                                          | Date<br>Oct. 16, 2000                  |

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